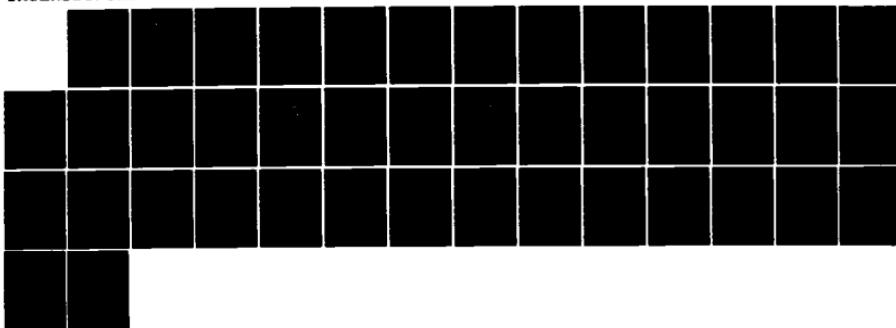


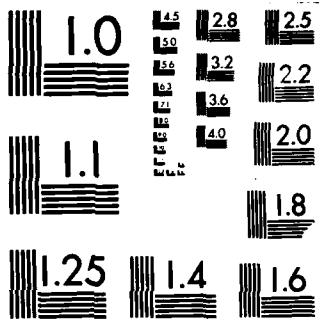
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**Federal Aviation
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U.S. Civil Airmen Statistics 1984

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Technical Report Documentation Page

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle U. S. CIVIL AIRMEN STATISTICS		5. Report Date May 31, 1985	
7. Author(s) Patricia W. Carter		6. Performing Organization Code AMS 220	
9. Performing Organization Name and Address Federal Aviation Administration Office of Management Systems 800 Independence Avenue S.W. Washington, D.C. 20591		8. Performing Organization Report No.	
12. Sponsoring Agency Name and Address		10. Work Unit No. (TRAIS)	
		11. Contract or Grant No.	
		13. Type of Report and Period Covered Calendar Year	
		14. Sponsoring Agency Code FAA	
15. Supplementary Notes			
16. Abstract This report furnishes detailed airmen statistics. It contains calendar year statistics on pilots and nonpilots and the number of certificates issued.			
17. Key Words Certificates held, nonpilot, private, commercial, student, airline transport, glider, helicopter, lighter-than-air, instrument ratings, flight instructors, pilot certificates issued.		18. Distribution Statement	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages	22. Price

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Below is a list of the publications compiled by the Management Standards & Statistics Division. Questions may be directed to us by phone: (202) 426-3791, or by writing Federal Aviation Administration, Management Standards & Statistics Division (AMS-400), Washington, DC 20591.

FAA Statistical Handbook of Aviation is a convenient source for historical data. It presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents, Aeronautical Production & Import/Export.

Reporting period:	Calendar Year
Latest edition:	1983 data
Order from:	U.S. Government Printing Office OR National Technical Information Service
Date 1984 information will be available:	Various
Date next publication is scheduled:	November 1985 (1984 data)

U.S. Civil Airmen Statistics is an annual study of detailed airmen statistics. It contains calendar year statistics on pilot and nonpilots and the number of certificates issued.

Reporting period:	Calendar Year
Latest edition:	1984 data
Order from:	Management Standards & Statistics Division
Date 1985 information is available:	March 1986
Date next publication is scheduled:	June 1986 (1985 data)

Census of U.S. Civil Aircraft is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft--both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model.

Reporting period:	Calendar Year
Latest edition:	1983 data
Order from:	U.S. Government Printing Office OR National Technical Information Service
Date 1984 Information will be available:	June 1985
Date next publication is scheduled:	October 1985 (1984 data)

FAA Air Traffic Activity furnishes terminal and en route air traffic activity information (e.g., takeoffs & landings, flight plans filed) of the National Airspace System. The data is collected/compiled from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, and Approach Control Facilities.

Reporting period:	Fiscal Year
Latest edition:	1984 data
Order from:	U.S. Government Printing Office or National Technical Information Service
Date 1985 information will be available:	January 1986
Date next publication is scheduled:	April 1986 (1985 data)

General Aviation Pilot and Aircraft Activity Survey includes data on the type and source of aircraft flight plan and weather information services, trip length in time and distance, pilot age and certification, estimates of total 1981 general aviation operations, fuel consumption and aircraft miles flown. The survey was made by the Federal Aviation Administration with the assistance of the Civil Air Patrol.

Reporting period:	Survey conducted in 3-year intervals
Latest edition:	1981 data
Order from:	National Technical Information Service
Date 1984 information is available:	January 1986
Date next publication is scheduled:	April 1986 (1984 data)

General Aviation Activity and Avionics Survey publication presents the results of the General Aviation Activity and Avionics Survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The survey reveals estimated flying time of the active general aviation aircraft, and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Estimates are included on fuel consumption, lifetime airframe hours, avionics, and engine hours.

Reporting period:	Calendar Year
Latest edition:	1983 data
Order from:	Government Printing Office or National Technical Information Service
Date 1984 Information will be available:	October 1985
Date next publication is available:	December 1985 (1984 data)

FAA Directory is published twice a year, it contains six sections of data: Washington/Region/Center headquarters' managers; field facilities' managers/supervisors; regional area maps/organizational charts; alphabetical listing; special interest groups; and Glossary.

Latest edition: November 1984
Order from: Government Printing Office

Date next publication
is scheduled: May 1985

Airport Activity Statistics of Certificated Route Air Carriers is a joint publication of the Federal Aviation Administration (FAA) and the Civil Aeronautics Board (CAB). CAB furnishes airport activity data on certificated route air carriers; FAA organizes/publishes it. Included in the data are passenger enplanements, tons of enplaned freight, express and mail. Both scheduled/nonscheduled service and domestic/international operations shown by airport and carrier are also included. Breakdown of data includes departures/enplanements/cargo/mail by airport, carrier & type of operation, and type of aircraft.

Reporting period: Calendar Year
Latest edition: 1983 data
Order from: Government Printing Office

Date 1984 Information
will be available: August 1985

Date next publication
is available: October 1985 (1984 data)

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PREFACE

THE U.S. CIVIL AIRMEN STATISTICS IS AN ANNUAL STUDY PUBLISHED TO MEET THE DEMANDS OF FAA, OTHER GOVERNMENT AGENCIES, AND INDUSTRY FOR MORE DETAILED AIRMEN STATISTICS THAN THOSE PUBLISHED IN OTHER FAA REPORTS.

STATISTICS PERTAINING TO AIRMEN, BOTH PILOT AND NONPILOT, WERE OBTAINED FROM THE OFFICIAL AIRMAN CERTIFICATION RECORDS MAINTAINED AT THE FAA AERONAUTICAL CENTER, OKLAHOMA CITY, OKLAHOMA.

AN ACTIVE AIRMEN IS ONE WHO HOLD BOTH AN AIRMEN CERTIFICATE AND A VALID MEDICAL CERTIFICATE. AIRMEN WHO MUST HAVE A VALID MEDICAL TO EXERCISE THE PRIVILEGES OF THEIR CERTIFICATE ARE ALL AIRPLANE PILOTS, CONTROL TOWER OPERATORS, FLIGHT NAVIGATORS, FLIGHT ENGINEERS, AND FLIGHT INSTRUCTORS. THE GLIDER AND LIGHTER-THAN-AIR PILOTS ARE NOT REQUIRED TO HAVE A MEDICAL EXAMINATION BUT THE NUMBERS REPRESENT ONLY THOSE WHO HAD A VALID MEDICAL CERTIFICATE. MECHANICS, PARACHUTE RIGGERS, GROUND INSTRUCTORS, AND DISPATCHERS CERTIFICATES REPRESENT ALL CERTIFICATES ON RECORD AT THE AERONAUTICAL CENTER. *See, page 2*

THIS STUDY WAS PREPARED IN THE OFFICE OF MANAGEMENT SYSTEMS, INFORMATION AND STATISTICS DIVISION, INFORMATION ANALYSIS BRANCH (AMS-420), BY PATRICIA W. CARTER.

DISTRIBUTION: ZMS-348E

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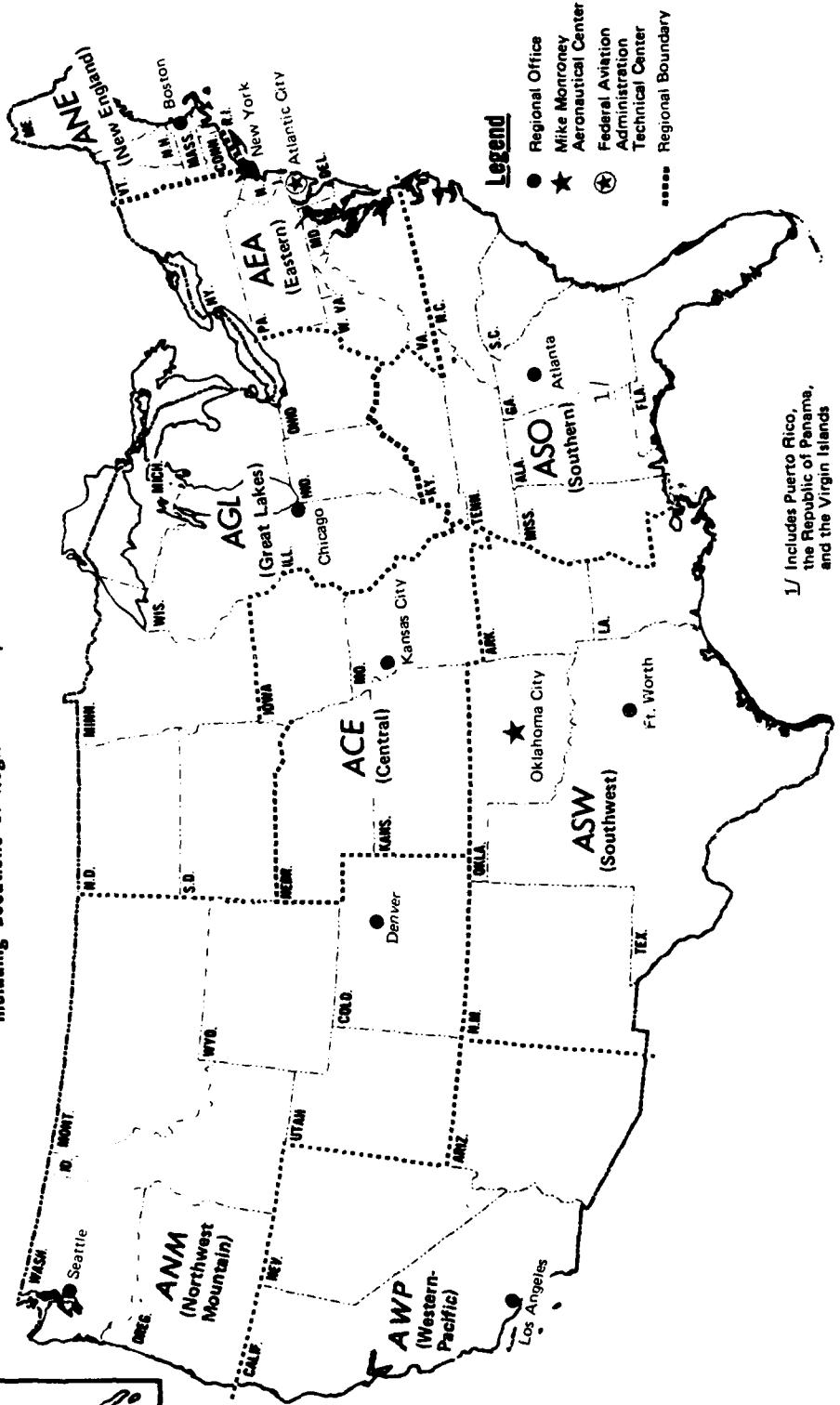
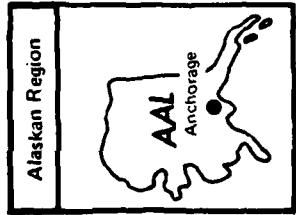
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U.S. DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
FAA REGIONAL BOUNDARIES
Including Locations of Regional Headquarters and Centers



Legend

- Regional Office (solid dot)
- Mike Monroney Aeronautical Center (star)
- Federal Aviation Administration Technical Center (star with circle)
- Regional Boundary (dotted line)

1/ Includes Puerto Rico,
the Republic of Panama,
and the Virgin Islands

I. ACTIVE PILOT CERTIFICATES HELD

TABLE 1
ESTIMATED ACTIVE PILOT CERTIFICATES HELD: DECEMBER 31, 1975-1984

Category	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Pilot—Total	728,187	744,246	783,932	798,833	814,667	827,071	764,182	733,255	718,004	722,376
Student	176,978	188,801	203,510	204,874	210,180	199,833	179,912	156,361	147,197	150,081
Private	305,863	309,005	327,424	337,644	343,276	357,479	328,562	322,094	318,643	320,086
Commercial	189,342	187,801	188,763	185,833	182,097	183,442	168,580	165,093	159,495	155,929
Airline transport . . .	42,592	45,072	50,149	55,881	63,652	69,569	70,311	73,471	75,938	79,192
Helicopter (only) . . .	4,932	4,804	4,819	4,874	5,218	6,030	6,453	7,034	7,237	7,532
Glider (only) 1/* . . .	5,348	5,789	6,208	6,541	6,796	7,039	7,388	7,842	8,157	8,390
Lighter-than-air 1/* . .	3,132	2,974	3,059	3,186	3,448	3,679	2,976	1,360	1,337	1,166
Nonpilot—Total	323,934	334,681	348,584	362,350	377,213	393,486	398,368	420,595	432,890	447,462
Mechanic 1/	205,436	212,303	220,768	228,743	237,611	250,157	262,705	277,436	288,335	298,028
Parachute rigger 1/ . .	8,327	8,718	8,994	9,200	9,381	9,547	9,716	9,893	10,074	10,194
Ground instructor 1/ . .	51,365	53,464	55,717	57,38	59,680	61,550	63,246	65,004	66,385	67,463
Dispatcher 1/	5,741	5,838	5,972	6,161	6,466	6,799	7,094	7,580	8,223	8,980
Control tower operator .	23,956	24,584	25,107	25,322	25,130	15,528	3	20,934	19,691	20,660
Flight navigator	2,321	2,214	2,155	2,092	1,994	1,936	1,785	1,695	1,636	1,603
Flight engineer	26,788	27,560	29,871	33,028	36,869	38,367	38,294	38,053	38,546	40,534
Flight instructor certificates	46,777	46,236	49,362	52,201	54,398	60,440	57,523	62,492	62,201	61,173
Instrument ratings 2/ . .	203,954	211,364	226,334	236,312	247,096	260,461	252,535	255,073	254,271	256,584

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.

*Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

1/ Number represent all certificates on record. No medical examination required.

2/ Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.

3/ Does not include approximately 15,000 air traffic controllers. Their medical certificates are no longer processed by the Civil Aeromedical Institute (CAMI). They are being processed by a separate system, and will be included in future counts.

r/ Revised

TABLE 2
ESTIMATED ACTIVE WOMEN PILOT CERTIFICATES HELD: DECEMBER 1975-1984

Category of Certificates Held	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Pilot—Total	37,934	41,643	47,294	49,874	51,733	52,902	47,721	45,305	43,648	44,339
Student	19,600	22,254	25,705	26,354	26,714	26,006	22,591	19,958	18,696	19,435
Private	14,952	15,838	17,020	19,267	20,275	21,554	19,602	19,388	18,801	18,616
Commercial	2,733	2,857	3,090	3,306	3,618	3,993	4,101	4,257	4,281	4,332
Airline Transport	137	160	193	270	361	480	584	749	884	1,032
Helicopter (Only)	11	17	18	17	27	55	87	113	144	167
Glider (Only) 1/*	301	352	391	433	461	496	540	574	599	631
Lighter-than-Air 1/*	200	165	195	227	277	318	216	266	243	226
Nonpilot—Total	3,809	4,252	4,716	5,135	5,600	6,111	6,348	7,115	7,670	8,315
Mechanic 1/	360	422	505	600	695	890	1,051	1,298	1,493	1,649
Parachute Rigger 1/	504	516	535	544	553	562	580	593	605	614
Ground Instructor 1/	2,249	2,369	2,525	2,682	2,852	3,015	3,213	3,391	3,554	3,680
Dispatcher 1/	50	55	65	76	105	141	167	199	249	310
Control Tower Operator	638	874	1,044	1,151	1,250	1,332	1,147	1,418	1,519	1,724
Flight Engineer	8	16	42	82	145	171	189	215	248	336
Flight Navigator	0	0	0	0	0	0	0	1	2	2
Flight Instructor	945	1,054	1,238	1,458	1,699	2,079	2,165	2,532	2,685	2,736

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.

Note: Instrument ratings not reported.

* Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

1/ Number represent all certificates on record. No medical examination required.

TABLE 3
ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION:
DECEMBER 31, 1984

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southeast	Western Pacific	Northeast Mountain	Alaskan	Outside U.S.
Total—All Groups	722,376	<u>33,006</u>	<u>91,889</u>	<u>119,972</u>	<u>39,769</u>	<u>113,685</u>	<u>94,709</u>	<u>129,468</u>	<u>69,835</u>	<u>11,959</u>	<u>18,064</u>
Student Pilots—Total	<u>150,081</u>	<u>8,130</u>	<u>21,581</u>	<u>24,887</u>	<u>7,065</u>	<u>23,963</u>	<u>19,387</u>	<u>25,730</u>	<u>13,816</u>	<u>2,521</u>	<u>3,001</u>
Private Pilots—Total	<u>320,086</u>	<u>13,918</u>	<u>38,967</u>	<u>60,615</u>	<u>21,015</u>	<u>45,824</u>	<u>40,261</u>	<u>58,520</u>	<u>32,091</u>	<u>5,432</u>	<u>3,343</u>
Private airplane (Only)	310,207	13,523	37,465	59,299	20,597	44,103	39,166	56,541	31,045	5,298	3,170
Private airplane, private glider	4,347	197	793	675	176	603	456	989	400	28	30
Private airplane, commercial glider	754	51	146	110	20	85	59	175	101	3	4
Private airplane, private gyroplane	30	2	5	9	3	2	1	8	0	0	0
Private airplane, private helicopter	1,206	50	136	158	59	208	185	214	158	19	19
Private airplane, private glider	48	5	9	8	0	10	4	8	4	0	0
Private airplane, commercial helicopter	3,457	90	409	352	159	803	489	574	379	83	119
Private airplane, private glider, commercial helicopter	21	0	3	1	0	4	0	8	3	1	1
Private airplane, commercial helicopter	15	0	1	2	1	6	1	3	1	0	0
Private airplane, commercial gyroplane, commercial helicopter	1	0	0	1	0	0	0	0	0	0	0
Commercial Pilots—Total	<u>155,929</u>	<u>6,138</u>	<u>19,123</u>	<u>22,930</u>	<u>8,153</u>	<u>26,774</u>	<u>22,068</u>	<u>27,842</u>	<u>14,691</u>	<u>2,800</u>	<u>5,410</u>
Commercial airplane (Only)	132,668	5,321	16,056	20,406	7,161	21,953	18,742	23,300	12,252	2,391	5,086
Commercial airplane, private glider	2,186	89	336	288	81	328	248	539	233	26	18
Commercial airplane, commercial glider	4,149	195	646	592	145	635	490	899	480	33	34
Commercial airplane, commercial gyroplane, commercial glider	3	0	1	0	0	1	0	1	0	0	0

TABLE 3 (Continued)
ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1984

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaskan	Outside U.S.
Commercial airplane, private helicopter.	248	8	23	48	8	42	42	41	26	5	5
Commercial airplane, commercial glider, private helicopter.	16	0	4	2	1	2	2	4	1	0	0
Commercial airplane, commercial helicopter.	15,817	486	1,929	1,488	720	3,671	2,452	2,883	1,602	333	253
Commercial airplane, private glider, commercial helicopter.	154	6	27	26	7	32	12	24	17	1	2
Commercial airplane, commercial helicopter, commercial glider, commercial helicopter.	632	29	94	71	28	104	73	141	71	9	12
Commercial airplane, commercial gyroplane helicopter, commercial gyroplane.	25	1	3	5	1	3	3	5	3	1	0
Commercial airplane, commercial gyroplane gyroplane.	24	2	2	3	1	3	4	3	5	1	0
Commercial airplane, commercial gyroplane, commercial helicopter.	7	1	2	1	0	0	0	2	1	0	0
Airline Transport Pilots—Total.	<u>79,192</u>	<u>3,969</u>	<u>9,379</u>	<u>2,533</u>	<u>2,976</u>	<u>14,343</u>	<u>10,985</u>	<u>13,670</u>	<u>7,396</u>	<u>1,049</u>	<u>5,892</u>
Airline transport airplane (Only)	77,921	3,879	9,158	9,420	2,942	14,109	10,757	13,474	7,300	1,021	5,861
Airline transport airplane, Airline transport helicopter.	1,271	90	221	113	34	234	228	196	96	28	31
Rotorcraft (Only) Pilots—Total	<u>7,532</u>	<u>302</u>	<u>972</u>	<u>618</u>	<u>297</u>	<u>2,014</u>	<u>1,165</u>	<u>1,100</u>	<u>636</u>	<u>132</u>	<u>296</u>
Private gyroplane.	6	1	0	1	0	0	1	1	2	0	0
Private helicopter.	712	73	96	73	25	85	86	165	78	6	25
Commercial helicopter.	6,415	219	834	524	269	1,885	954	898	539	110	163
Commercial helicopter, private glider.	2	0	1	0	0	0	0	1	0	0	0
Commercial helicopter, commercial glider.	9	0	2	0	0	3	2	0	2	0	0

TABLE 3 (Continued)
ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1984

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Mountain	Northwest	Alaskan	Outside U.S.
Commercial helicopter, commercial gyroplane	1	0	0	1	0	0	0	0	0	0	0	0
Airline transport helicopter	387	9	39	19	3	41	122	35	15	16	88	
Glider (only)---Total	<u>8,390</u>	<u>514</u>	<u>1,723</u>	<u>1,115</u>	<u>157</u>	<u>644</u>	<u>586</u>	<u>2,445</u>	<u>1,077</u>	<u>16</u>	<u>113</u>	
Private Glider	6,971	406	1,438	913	116	548	462	2,148	808	13	99	
Commercial Glider	1,419	108	285	182	41	96	124	297	269	3	14	
Lighter-than-air	<u>1,166</u>	<u>35</u>	<u>144</u>	<u>274</u>	<u>106</u>	<u>123</u>	<u>157</u>	<u>181</u>	<u>128</u>	<u>9</u>	<u>9</u>	
Total—all nonpilot	<u>447,462</u>	<u>20,884</u>	<u>72,500</u>	<u>57,177</u>	<u>23,179</u>	<u>73,050</u>	<u>56,128</u>	<u>86,060</u>	<u>35,622</u>	<u>4,741</u>	<u>18,121</u>	
Mechanic 1/	298,028	14,040	50,757	37,245	16,902	45,772	37,157	53,993	21,916	3,055	12,191	
Parachute rigger 1/	10,194	412	1,702	1,306	447	1,891	1,120	1,682	1,337	151	146	
Ground instructor 1/	67,463	3,090	10,134	10,649	3,873	10,779	9,215	11,853	5,782	761	1,327	
Dispatcher 1/	8,980	222	2,025	706	167	1,515	565	1,458	459	148	1,715	
Control tower operator	20,660	770	3,401	2,590	813	4,701	2,959	3,320	1,622	319	165	
Flight navigator	1,603	166	252	50	16	279	87	486	151	5	111	
Flight engineer	40,534	2,184	4,229	4,631	961	8,113	5,025	8,268	4,355	302	2,466	
Flight instructor certificates												
Total	<u>61,173</u>	<u>2,685</u>	<u>8,595</u>	<u>10,133</u>	<u>3,305</u>	<u>9,621</u>	<u>8,334</u>	<u>10,385</u>	<u>6,208</u>	<u>871</u>	<u>836</u>	
Instrument ratings 2/	<u>256,584</u>	<u>11,152</u>	<u>32,756</u>	<u>38,110</u>	<u>12,242</u>	<u>45,686</u>	<u>34,860</u>	<u>45,041</u>	<u>23,090</u>	<u>3,592</u>	<u>10,055</u>	

Estimated: Data is based on a 25-month criteria.

1/ Total ratings issued to date. These ratings retain their validity without periodic medical examinations.

2/ Special ratings shown on pilot certificates, i.e., do not indicate additional ratings.

Figure 2. Total Active Pilots
December 31, 1984

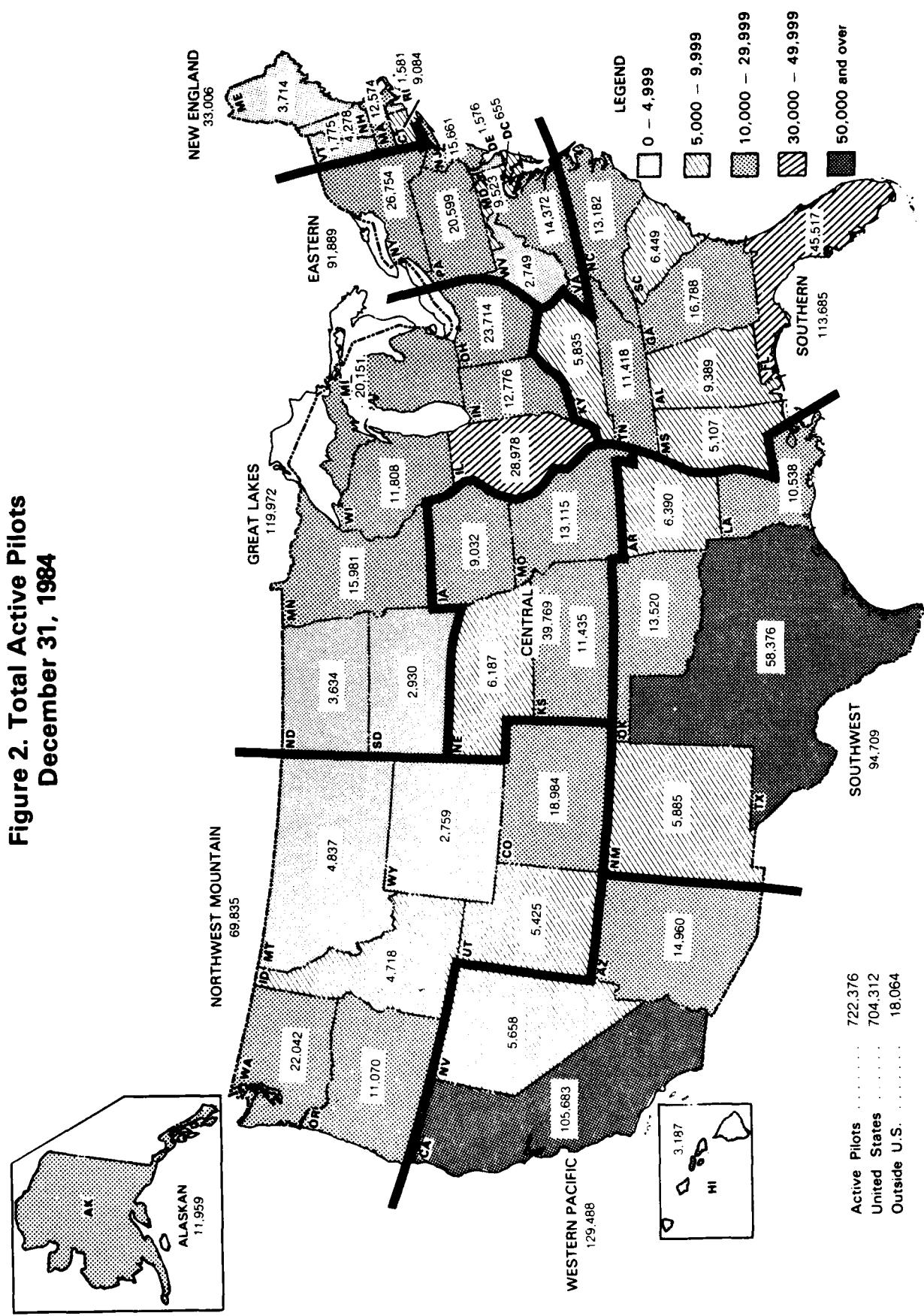


TABLE 4
ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:
DECEMBER 31, 1984

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Total	722,376	150,081	320,086	155,929	79,192	17,088	61,173
United States--Total	<u>704,312</u>	<u>147,080</u>	<u>316,743</u>	<u>150,519</u>	<u>73,300</u>	<u>16,670</u>	<u>60,337</u>
New England--Total	<u>33,006</u>	<u>8,130</u>	<u>13,918</u>	<u>6,138</u>	<u>3,969</u>	<u>851</u>	<u>2,685</u>
Maine	3,714	878	1,736	806	248	46	259
New Hampshire	4,278	914	1,548	883	824	109	380
Rhode Island	1,581	390	732	296	134	29	115
Massachusetts	12,574	3,396	5,681	2,141	980	376	1,007
Connecticut	9,084	2,097	3,431	1,701	1,626	229	778
Vermont	1,775	455	790	311	157	62	146
Eastern--Total	<u>91,889</u>	<u>21,581</u>	<u>38,967</u>	<u>19,123</u>	<u>9,379</u>	<u>2,839</u>	<u>8,595</u>
New York	26,754	6,798	11,499	5,304	2,077	1,076	2,394
Pennsylvania	20,599	4,956	9,141	3,806	2,088	608	2,017
Virginia	14,372	2,863	5,398	3,972	1,759	380	1,327
Maryland	9,523	2,257	4,229	1,983	824	230	852
West Virginia	2,749	709	1,288	521	187	44	223
Delaware	1,576	296	688	359	201	32	180
New Jersey	15,661	3,529	6,448	3,039	2,210	435	1,557
District of Columbia .	655	173	276	139	33	34	45
Great Lakes--Total	<u>119,972</u>	<u>24,887</u>	<u>60,615</u>	<u>22,930</u>	<u>9,533</u>	<u>2,007</u>	<u>10,333</u>
Illinois	28,978	6,226	13,817	5,483	2,930	522	2,601
Indiana	12,776	2,778	6,535	2,444	837	182	1,137
Minnesota	15,981	2,928	8,017	3,161	1,708	167	1,307
Michigan	20,151	4,348	10,452	3,582	1,311	458	1,655
North Dakota	3,634	770	1,845	894	88	37	249
Ohio	23,714	5,000	11,863	4,627	1,723	501	2,220
South Dakota	2,930	562	1,584	645	114	25	194
Wisconsin	11,808	2,275	6,502	2,094	822	115	970
Central--Total	<u>39,769</u>	<u>7,065</u>	<u>21,015</u>	<u>8,153</u>	<u>2,976</u>	<u>560</u>	<u>3,305</u>
Kansas	11,435	1,904	6,062	2,417	903	149	944
Iowa	9,032	1,563	5,282	1,657	400	130	684
Missouri	13,115	2,563	6,211	2,724	1,379	238	1,231
Nebraska	6,187	1,035	3,460	1,355	294	43	446

TABLE 4 (Continued)
 ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:
 DECEMBER 31, 1984

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Southern--Total	<u>113,685</u>	<u>23,963</u>	<u>45,824</u>	<u>26,774</u>	<u>14,343</u>	<u>2,781</u>	<u>9,621</u>
North Carolina	13,182	3,098	5,686	2,799	1,284	315	1,037
South Carolina	6,449	1,514	2,706	1,576	535	118	496
Georgia	16,788	3,313	6,069	3,852	3,213	341	1,330
Florida	45,517	9,047	18,085	11,248	6,431	706	3,899
Mississippi	5,107	1,127	2,112	1,468	310	90	389
Alabama	9,389	1,884	3,733	2,585	572	615	994
Tennessee	11,418	2,580	4,805	2,175	1,516	342	990
Kentucky	5,835	1,400	2,628	1,071	482	254	486
Southwest--Total	<u>94,709</u>	<u>19,387</u>	<u>40,361</u>	<u>22,068</u>	<u>10,985</u>	<u>1,908</u>	<u>8,334</u>
Louisiana	10,538	2,291	4,155	2,867	882	343	928
Oklahoma	13,520	2,733	6,776	2,878	965	168	1,117
Texas	58,376	11,717	23,831	13,362	8,316	1,150	5,312
New Mexico	5,885	1,267	2,740	1,291	405	182	446
Arkansas	6,390	1,379	2,859	1,670	417	65	531
Western-Pacific--Total .	<u>129,488</u>	<u>25,730</u>	<u>58,520</u>	<u>27,842</u>	<u>13,670</u>	<u>3,726</u>	<u>10,385</u>
Hawaii	3,187	734	842	855	575	181	303
California	105,683	20,979	48,612	22,431	10,758	2,903	6,241
Arizona	14,960	2,937	6,765	3,319	1,431	508	1,307
Nevada	5,658	1,080	2,301	1,237	906	134	534
Northwest-Mountain--Total	<u>69,835</u>	<u>13,816</u>	<u>32,091</u>	<u>14,691</u>	<u>7,396</u>	<u>1,841</u>	<u>6,208</u>
Washington	22,042	4,071	9,578	5,005	2,895	493	2,022
Oregon	11,070	1,907	6,149	2,249	535	210	897
Idaho	4,718	822	2,408	1,101	308	79	436
Colorado	18,984	4,395	7,367	3,704	2,691	827	1,822
Wyoming	2,759	549	1,463	539	165	43	215
Utah	5,425	1,126	2,591	1,035	532	141	420
Montana	4,837	946	2,535	1,058	250	48	396
Alaskan Region--Total .	<u>11,959</u>	<u>2,521</u>	<u>5,432</u>	<u>2,800</u>	<u>1,049</u>	<u>157</u>	<u>871</u>
Outside U.S.--Total . .	<u>18,064</u>	<u>3,001</u>	<u>3,343</u>	<u>3,410</u>	<u>3,892</u>	<u>418</u>	<u>836</u>
U.S. Territories--Total 4/	<u>2,066</u>	<u>672</u>	<u>691</u>	<u>340</u>	<u>340</u>	<u>23</u>	<u>0</u>
Puerto Rico	1,391	548	533	253	237	20	0
Virgin Island	363	104	133	67	57	2	0
American Samoa	11	0	1	5	5	0	0
Canal Zone	1	1	0	0	0	0	0
Guam	94	18	22	15	38	1	0
Wake Island	6	1	2	0	3	0	0

Estimated: Data is based on a 23-month criteria.

1/ Includes Outside U.S.

2/ Includes helicopter, glider, and lighter-than-air.

3/ Not included in total.

4/ U.S. Territories are included in Outside U.S. total.

**Figure 3. Total Active Women Pilots:
December 31, 1984**

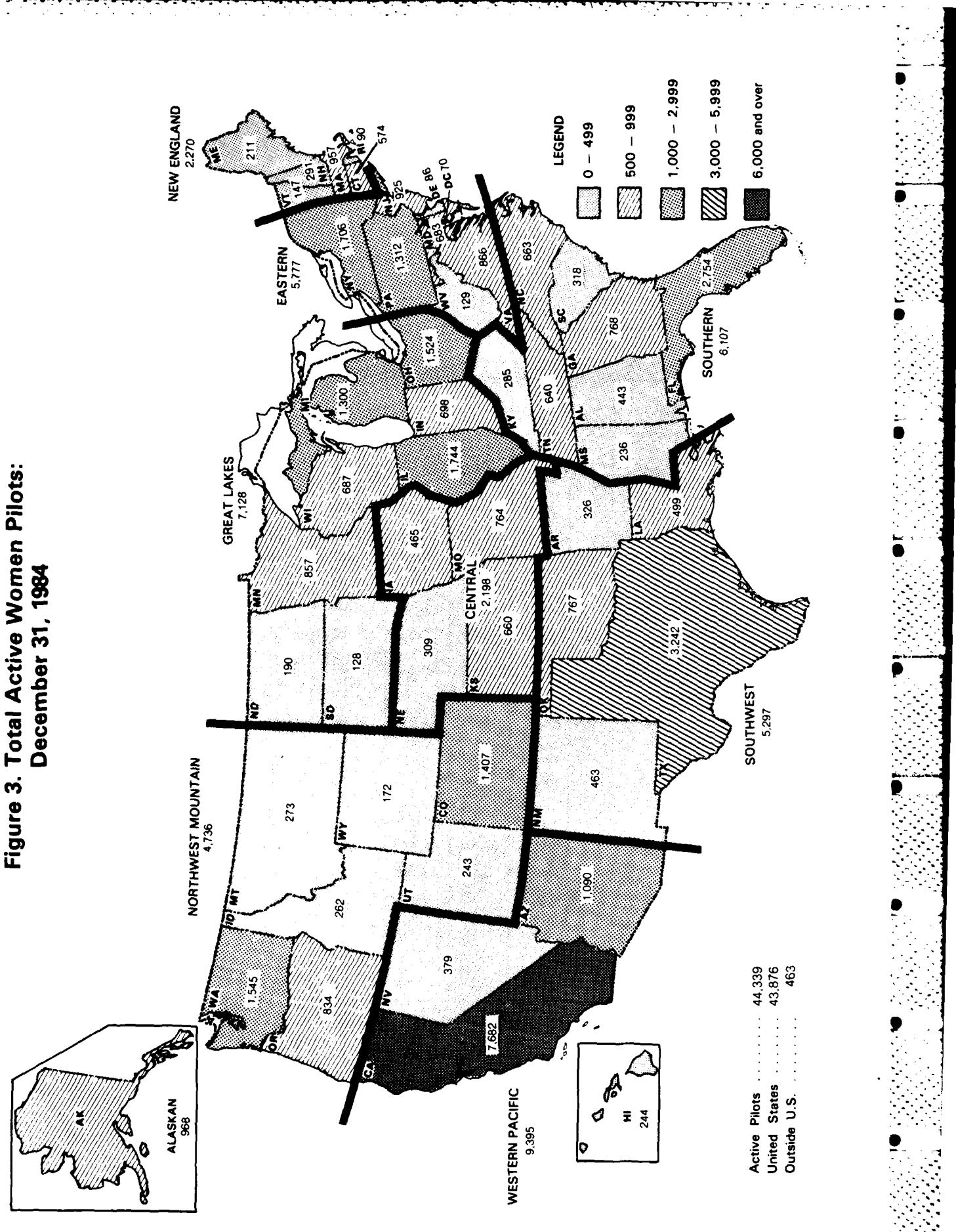


TABLE 5
ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:
DECEMBER 31, 1984

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Total 1/	<u>44,339</u>	<u>19,435</u>	<u>18,616</u>	<u>4,232</u>	<u>1,032</u>	<u>1,024</u>	<u>2,736</u>
United States--Total	<u>43,876</u>	<u>19,238</u>	<u>18,444</u>	<u>4,168</u>	<u>1,017</u>	<u>1,009</u>	<u>2,715</u>
New England--Total . . .	<u>2,270</u>	<u>1,081</u>	<u>864</u>	<u>211</u>	<u>53</u>	<u>61</u>	<u>141</u>
Maine	211	109	78	18	4	2	11
New Hampshire	291	131	106	39	8	7	25
Rhode Island	90	42	36	9	2	1	6
Massachusetts	957	464	377	78	13	25	45
Connecticut	575	277	199	56	24	18	46
Vermont	147	58	68	11	2	8	8
Eastern--Total	<u>5,777</u>	<u>2,639</u>	<u>2,235</u>	<u>593</u>	<u>120</u>	<u>190</u>	<u>387</u>
New York	1,706	767	663	170	27	79	105
Pennsylvania	1,312	615	489	143	28	37	100
Virginia	866	404	344	84	19	15	57
Maryland	683	310	271	71	18	13	48
West Virginia	129	74	48	6	0	1	3
Delaware	86	34	40	8	1	3	6
New Jersey	925	406	348	108	22	41	64
District of Columbia . .	70	29	32	3	5	1	4
Great Lakes--Total	<u>7,128</u>	<u>3,020</u>	<u>3,111</u>	<u>720</u>	<u>148</u>	<u>129</u>	<u>475</u>
Illinois	1,744	758	748	185	29	24	115
Indiana	698	294	306	76	15	7	48
Minnesota	857	326	389	100	32	10	76
Michigan	1,300	583	524	123	22	48	78
North Dakota	190	81	79	28	2	0	15
Ohio	1,524	670	632	151	35	36	101
South Dakota	128	59	64	4	1	0	2
Wisconsin	687	249	369	53	12	4	40
Central--Total	<u>2,198</u>	<u>890</u>	<u>1,041</u>	<u>187</u>	<u>42</u>	<u>38</u>	<u>130</u>
Kansas	660	263	323	55	12	7	31
Iowa	465	177	233	42	4	9	24
Missouri	764	336	323	66	19	20	60
Nebraska	309	114	162	24	7	2	15

TABLE 5 (Continued)
 ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:
 DECEMBER 31, 1984

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Southern--Total	<u>6,107</u>	<u>2,899</u>	<u>2,344</u>	<u>567</u>	<u>193</u>	<u>104</u>	<u>335</u>
North Carolina	663	334	242	57	21	9	39
South Carolina	318	175	100	28	10	5	15
Georgia	768	366	282	75	30	15	38
Florida	2,754	1,218	1,127	284	85	40	156
Mississippi	236	122	83	22	6	3	15
Alabama	443	230	162	31	3	17	18
Tennessee	640	322	234	43	30	11	33
Kentucky	285	132	114	27	8	4	21
Southwest--Total . . .	<u>5,297</u>	<u>2,476</u>	<u>2,166</u>	<u>442</u>	<u>120</u>	<u>93</u>	<u>296</u>
Louisiana	499	247	177	52	13	10	39
Oklahoma	767	330	350	65	18	4	46
Texas	3,242	1,514	1,347	257	74	50	167
New Mexico	463	228	164	34	9	28	20
Arkansas	326	157	128	34	6	1	24
Western-Pacific--Total.	<u>9,395</u>	<u>3,738</u>	<u>4,225</u>	<u>949</u>	<u>223</u>	<u>260</u>	<u>621</u>
Hawaii	244	108	79	32	12	13	25
California	7,682	3,013	3,522	781	174	192	502
Arizona	1,090	438	480	100	25	47	72
Nevada	379	179	144	36	12	8	22
Northwest-Mountain--Total	<u>4,736</u>	<u>2,040</u>	<u>2,053</u>	<u>415</u>	<u>97</u>	<u>131</u>	<u>289</u>
Washington	1,545	593	714	167	37	34	101
Oregon	834	326	421	57	13	17	40
Idaho	262	108	118	28	2	6	17
Colorado	1,407	707	486	119	32	63	100
Wyoming	172	75	79	14	2	2	7
Utah	243	110	109	10	7	7	9
Montana	273	121	126	20	4	2	15
Alaskan Region--Total .	<u>968</u>	<u>455</u>	<u>405</u>	<u>84</u>	<u>21</u>	<u>3</u>	<u>41</u>
Outside U.S.--Total . .	<u>463</u>	<u>197</u>	<u>172</u>	<u>64</u>	<u>15</u>	<u>15</u>	<u>21</u>
U.S. Territories--Total 4/	<u>75</u>	<u>36</u>	<u>26</u>	<u>7</u>	<u>3</u>	<u>3</u>	<u>0</u>
Puerto Rico	44	23	11	4	3	3	0
Virgin Island	28	11	14	3	0	0	0
American Samoa	0	0	0	0	0	0	0
Canal Zone	0	0	0	0	0	0	0
Guam	3	2	1	0	0	0	0
Wake Island	0	0	0	0	0	0	0

Estimated: Data is based on a 25-month criteris.

1/ Includes outside U.S.

2/ Includes helicopter, glider, and lighter-than-air.

3/ Not included in total.

4/ U.S. Territories are included in Outside of U.S. total.

TABLE 6
ESTIMATED ACTIVE HELICOPTER PILOTS BY CLASS OF CERTIFICATES:
DECEMBER 31, 1984

Class of Certificates	Number of Certificates Held
Total	30,507
Private helicopter	712
Private gyroplane, private airplane	30
Private helicopter, private airplane	1,206
Private helicopter, private airplane, private glider	48
Private airplane, commercial gyroplane, commercial helicopter.	1
Private airplane, private glider, commercial helicopter.	21
Private gyroplane	6
Private airplane, commercial glider, commercial helicopter	15
Commercial helicopter	6,415
Commercial helicopter, private airplane	3,457
Commercial airplane, commercial helicopter.	15,817
Commercial airplane, private helicopter.	248
Commercial airplane, private glider, commercial helicopter	154
Commercial airplane, commercial glider, commercial helicopter	632
Commercial helicopter, private glider	2
Commercial helicopter, commercial glider	9
Commercial gyroplane, commercial airplane	24
Commercial airplane, commercial gyroplane, commercial glider	3
Commercial airplane, commercial gyroplane, commercial helicopter	25
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider.	7
Commercial helicopter, commercial gyroplane	1
Commercial airplane, commercial glider, private helicopter	16
Airline transport helicopter	387
Airline transport airplane, airline transport helicopter	1,271

Estimated: Data is based on a 25-month criteria.

TABLE 7
ESTIMATED ACTIVE GLIDER PILOTS BY CLASS OF CERTIFICATES:
DECEMBER 31, 1984

Class of Certificates	Number of Certificates Held
Total	20,733
Private glider	6,971
Private airplane, private glider	4,347
Private airplane, commercial glider	754
Private airplane, private glider, private helicopter	48
Private airplane, private glider, commercial helicopter	21
Private airplane, commercial glider, commerical helicopter	15
Private glider, commerical airplane	2,186
Private glider, commercial airplane, commerical helicopter	154
Private glider, commerical helicopter	2
Commercial glider	1,419
Commercial airplane, commercial glider	4,149
Commercial airplane, commercial glider, private helicopter	16
Commercial airplane, commercial glider, commercial helicopter	632
Commercial helicopter, commercial glider	9
Commercial airplane, commercial gyroplane, commercial glider, commercial helicopter	7
Commercial airplane, commercial gyroplane, commercial glider	3

Estimated: Data is based on a 25-month criteria.

TABLE 8
ESTIMATED ACTIVE HELICOPTER AND GLIDER PILOTS:
DECEMBER 31, 1980-84

Calendar Year	Total Helicopter Pilots 1/		Total Glider Pilots 2/	
	Number	Percent Change	Number	Percent Change
1984	30,507	1	20,733	+2
1983	30,090	+1	20,395	+3
1982	29,926	+ 2	19,806	+ 2
1981	29,236	- 3	19,331	- 2
1980	30,085	+ 4	19,626	+ 3

Estimated: Data is based on a 27-month criteria for 1980. Other years are based on a 25-month criteria.

1/ Includes pilots with ratings to fly helicopters only.
2/ Includes pilots with ratings to fly gliders only.

TABLE 9
ESTIMATED TOTAL PILOTS AND INSTRUMENT RATED PILOTS:
DECEMBER 31, 1980-84

Calendar Year	Total Pilots <u>1/</u>	Instrument Rated Pilots	
		Number	Percent of Total
1984	572,295	256,584	45
1983	570,807	254,271	45
1982	576,894	255,073	44
1981	584,270	252,535	43
1980	627,238	260,461	42

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.

1/ Excludes student pilots.

TABLE 10
ESTIMATED AIRLINE TRANSPORT CERTIFICATES HELD,
BY SELECTED AGE GROUPS: 1975-1984

Year	Total	Age Group		
		20-34 Years	35-44 Years	45 Years and Over
		Number		
1975	42,592	9,242	14,028	19,322
1976	45,072	10,246	14,649	20,177
1977	50,149	11,847	16,663	21,639
1978	55,881	14,656	18,368	22,857
1979	63,652	18,331	20,680	24,641
1980	69,569	20,317	22,735	26,517
1981	70,311	19,685	23,695	26,931
1982	73,471	18,912	25,729	28,830
1983	75,938	18,237	27,122	30,579
1984	79,192	18,233	28,557	32,402
Percent Distribution				
1975	100.0	21.7	32.9	45.4
1976	100.0	22.7	32.5	44.8
1977	100.0	23.6	33.2	43.1
1978	100.0	26.2	32.9	40.9
1979	100.0	28.8	32.5	38.7
1980	100.0	29.2	32.7	38.1
1981	100.0	28.0	33.7	38.3
1982	100.0	25.7	35.0	39.2
1983	100.0	24.0	35.7	40.3
1984	100.0	23.0	36.1	40.9

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.

TABLE 11
ESTIMATED ACTIVE PILOT CERTIFICATES HELD, BY CATEGORY AND AGE GROUP OF HOLDERS.

Estimated: 1984 and 1983 data is based on a 25-month criteria. 1980 is based on a 27-month criteria only.

11/ Mar included in total activities all data

CLIMATE AND LIVELIHOODS IN AFRICA: INFLUENCE OF CLIMATE VARIABILITY

total above represent oilers who received a medical exemption; however, actual figures - final totals above represent oilers who are not required to have a medical exemption; however,

Letters above represent piots who received a medical examination.

TABLE 12

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES: DECEMBER 31, 1984 AND 1983

Class of Certificates	1984	1983	Percent Change 1983-1984
Total—all groups	<u>256,584</u>	<u>254,271</u>	<u>1</u>
Private pilots—total	<u>43,312</u>	<u>41,951</u>	<u>3</u>
Private airplane (only)	39,962	38,836	3
Private airplane, private glider	964	921	5
Private airplane, commercial glider.	82	86	5
Private airplane, private helicopter	295	267	10
Private airplane, private glider, private helicopter	17	19	-11
Private airplane, commercial helicopter	1,968	1,797	10
Private airplane, private gyroplane	3	4	-25
Private airplane, private glider, commercial helicopter	10	10	0
Private airplane, commercial glider, commercial helicopter	10	10	0
Private airplane, other	1	1	0
Commercial pilots—total	<u>128,978</u>	<u>131,445</u>	<u>-2</u>
Commercial airplane (only)	108,916	111,188	-2
Commercial airplane, private glider	1,833	1,823	1
Commercial airplane, commercial glider	3,355	3,360	(*)
Commercial airplane, private helicopter	203	188	8
Commercial airplane, commercial helicopter	13,913	14,139	-2
Commercial airplane, private glider, commercial helicopter	141	138	2
Commercial airplane, commercial glider, commercial helicopter	561	558	1
Commercial airplane, commercial gyroplane	14	14	0
Commercial airplane, commercial helicopter, commercial gyroplane	20	16	25
Commercial airplane, commercial gyroplane, commercial glider.	2	2	0
Commercial airplane, commercial glider, private helicopter	13	12	8
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider	7	7	0
Airline transport pilots—total.	<u>79,192</u>	<u>75,938</u>	<u>4</u>
Airline transport airline.	77,921	74,752	4
Airline transport airplane, airline transport helicopter	1,271	1,186	7
Rotorcraft pilots—total	<u>5,102</u>	<u>4,937</u>	<u>3</u>
Commercial helicopter.	5,016	4,864	3
Airline transport helicopter	73	60	22
Rotorcraft other	13	13	0

Estimated: Data is based on a 25-month criteria.

TABLE 13
ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1984

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southeast	Western Pacific	Northwest Mountain	Aleaskan	Outside U.S.
Total—all Groups	256,584	11,152	32,756	38,110	12,242	45,686	34,860	45,041	23,090	3,592	10,055
Private pilots—total	43,312	1,877	6,150	8,814	2,547	6,911	5,163	7,874	3,482	282	212
Private airplane (only)	39,962	1,745	5,674	8,419	2,385	6,106	4,690	7,343	3,175	229	196
Private airplane, private glider . . .	964	48	178	167	42	135	100	218	65	5	6
Private airplane, commercial glider . .	82	10	14	6	2	8	6	16	0	0	0
Private airplane, private helicopter . .	295	17	35	36	12	54	52	56	32	0	1
Private airplane, private glider, private helicopter	17	1	4	4	0	2	1	3	2	0	0
Private airplane, commercial helicopter . .	1,968	55	243	178	104	597	311	233	191	48	8
Private airplane, private glider, private airplane, private glider, commercial helicopter	3	1	0	0	1	1	0	0	0	0	0
Private airplane, commercial glider, commercial helicopter	10	0	2	1	0	3	0	2	1	0	1
Commercial helicopter	10	0	0	2	1	5	1	1	0	0	0
Private airplane, other	1	0	0	1	0	0	0	0	0	0	0
Commercial pilots—total	128,978	5,132	16,524	19,339	6,508	22,779	17,960	22,867	11,795	2,173	3,901
Commercial airplane (only)	108,916	4,416	13,837	17,173	5,634	18,455	15,115	19,038	9,791	1,828	1,629
Commercial airplane, private glider	1,833	78	282	248	66	279	203	459	181	21	16
Commercial airplane, commercial glider	3,355	157	505	492	125	509	406	722	384	25	30
Commercial airplane, private helicopter	203	7	22	40	8	33	35	33	18	2	5
Commercial airplane, commercial helicopter	13,913	439	1,763	1,292	642	3,374	2,117	2,457	1,336	286	207
Commercial airplane, private glider, commercial helicopter	141	6	26	21	6	31	12	21	15	1	2
Commercial airplane, commercial glider, commercial helicopter	561	26	82	64	25	93	65	123	62	9	12

TABLE 13 (Continued)
ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1984

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northeast Mountain	Alaska	Outside U.S.
Commercial airplane, commercial											
Syroplane	14	1	1	0	2	2	3	4	0	0	0
Commercial airplane, commercial											
Helicopter, commercial Syroplane . . .	20	1	1	5	1	1	3	5	2	1	0
Commercial airplane, commercial											
Syroplane, commercial Glider	2	0	0	0	0	1	0	1	0	0	0
Commercial airplane, commercial											
Glider, private Helicopter	13	0	3	2	1	1	2	3	1	0	0
Commercial airplane, commercial											
Syroplane, commercial helicopter, commercial Glider	7	1	2	1	0	0	0	2	1	0	0
Airline transport pilots—total . . .	<u>79,192</u>	<u>3,969</u>	<u>9,379</u>	<u>2,533</u>	<u>2,976</u>	<u>14,343</u>	<u>10,985</u>	<u>13,670</u>	<u>7,396</u>	<u>1,049</u>	<u>5,892</u>
Airline transport airplane	77,921	3,879	9,158	9,420	2,942	14,109	10,757	13,474	7,300	1,021	5,861
Airline transport airplane, airline transport helicopter	1,271	90	221	113	34	234	228	196	96	28	31
Rotocraft pilots—total	<u>5,102</u>	<u>174</u>	<u>703</u>	<u>424</u>	<u>211</u>	<u>1,653</u>	<u>752</u>	<u>630</u>	<u>417</u>	<u>88</u>	<u>50</u>
Commercial helicopter	5,016	171	690	417	211	1,639	726	622	410	85	45
Airline transport helicopter	73	3	10	7	0	10	24	7	4	3	5
Other	13	0	3	0	0	4	2	1	3	0	0

Estimated: Data is based on a 22-month criteria.

II. ACTIVE NONPILOT CERTIFICATES HELD

TABLE 14

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1984 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Total 2/	<u>447,462</u>	<u>298,028</u>	<u>10,194</u>	<u>67,463</u>	<u>8,980</u>	<u>20,660</u>	<u>1,603</u>	<u>40,534</u>
United States—Total	<u>429,341</u>	<u>285,837</u>	<u>10,048</u>	<u>66,136</u>	<u>7,265</u>	<u>20,495</u>	<u>1,492</u>	<u>38,068</u>
New England—Total . . .	<u>20,884</u>	<u>14,040</u>	<u>412</u>	<u>3,090</u>	<u>222</u>	<u>770</u>	<u>166</u>	<u>2,184</u>
Maine	1,460	879	42	285	19	133	5	97
New Hampshire	2,082	891	34	365	26	140	24	602
Rhode Island	1,052	694	44	199	8	45	4	58
Massachusetts	9,841	7,559	190	1,270	92	276	15	439
Connecticut	5,842	3,671	89	823	64	138	114	943
Vermont	607	346	13	148	13	38	4	45
Eastern—Total	<u>72,500</u>	<u>50,757</u>	<u>1,702</u>	<u>10,134</u>	<u>2,025</u>	<u>3,401</u>	<u>252</u>	<u>4,229</u>
New York.	30,820	22,998	405	3,578	1,287	1,542	76	934
Pennsylvania.	16,118	11,948	374	2,331	184	558	47	676
Virginia.	6,360	3,178	420	1,194	129	611	37	791
Maryland.	3,962	2,359	142	823	33	237	13	355
West Virginia.	1,126	674	52	259	4	104	0	33
Delaware.	1,100	751	24	164	12	72	5	72
New Jersey.	12,426	8,461	258	1,656	360	262	74	1,355
District of Columbia	588	388	27	129	16	15	0	13
Great Lakes—Total . . .	<u>57,177</u>	<u>37,245</u>	<u>1,306</u>	<u>10,649</u>	<u>706</u>	<u>2,590</u>	<u>50</u>	<u>4,631</u>
Illinois.	16,265	10,279	299	2,785	276	643	17	1,966
Indiana.	5,556	3,679	195	1,057	38	332	7	248
Minnesota.	9,241	6,040	142	1,341	211	242	5	1,260
Michigan.	8,879	5,912	202	1,887	69	448	9	352
North Dakota.	937	588	25	186	2	119	0	17
Ohio.	11,166	7,525	281	2,239	79	546	5	491
South Dakota.	959	594	26	243	1	60	1	34
Wisconsin.	4,174	2,628	136	911	30	200	6	263
Central—total	<u>23,179</u>	<u>16,902</u>	<u>447</u>	<u>3,873</u>	<u>167</u>	<u>813</u>	<u>16</u>	<u>961</u>
Kansas	6,704	4,863	111	1,136	39	267	4	284
Iowa	3,114	2,133	92	676	13	130	0	70
Missouri	11,335	8,577	169	1,611	112	297	7	562
Nebraska	2,026	1,329	75	450	3	119	5	45

TABLE 14 (Continued)

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1984 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Southern--total	<u>73,050</u>	<u>45,772</u>	<u>1,891</u>	<u>10,779</u>	<u>1,515</u>	<u>4,701</u>	<u>279</u>	<u>6,113</u>
North Carolina	5,811	3,260	409	1,039	77	598	13	415
South Carolina	2,442	1,286	95	510	14	325	7	205
Georgia	14,210	8,746	295	1,516	245	573	15	2,820
Florida	34,728	22,712	549	4,888	939	1,675	222	3,743
Mississippi	1,921	1,084	49	433	6	263	5	81
Alabama	6,577	4,505	150	1,013	104	690	6	109
Tennessee	5,147	2,889	175	947	117	391	8	620
Kentucky	2,214	1,290	169	433	13	186	3	120
Southwest--total	<u>56,128</u>	<u>37,157</u>	<u>1,120</u>	<u>9,215</u>	<u>565</u>	<u>2,959</u>	<u>87</u>	<u>5,025</u>
Louisiana	5,049	3,406	110	798	36	383	4	312
Oklahoma	12,247	9,561	197	1,714	36	455	10	274
Texas	34,237	21,435	658	5,658	465	1,695	65	4,261
New Mexico	2,238	1,294	85	512	16	241	5	85
Arkansas	2,357	1,461	70	533	12	185	3	93
Western-Pacific--total	<u>86,060</u>	<u>58,983</u>	<u>1,682</u>	<u>11,853</u>	<u>1,458</u>	<u>3,320</u>	<u>486</u>	<u>8,268</u>
Hawaii	3,191	2,220	62	338	139	241	14	177
California	72,300	50,131	1,367	9,680	1,132	2,430	391	7,169
Arizona	7,959	5,348	199	1,335	160	388	20	509
Nevada	2,610	1,294	54	500	27	261	61	413
Northwest-Mountain--total	<u>35,622</u>	<u>21,916</u>	<u>1,337</u>	<u>5,782</u>	<u>459</u>	<u>1,622</u>	<u>151</u>	<u>4,355</u>
Washington	13,968	8,736	364	1,920	205	673	75	1,995
Oregon	4,061	2,758	243	688	29	158	30	155
Idaho	1,903	1,181	157	345	12	130	5	73
Colorado	10,213	5,960	168	1,793	184	364	29	1,715
Wyoming	1,003	668	34	192	10	43	3	53
Utah	2,465	1,478	87	414	16	164	5	301
Montana	2,009	1,135	284	430	3	90	4	63
Alaskan Region--total . .	<u>4,741</u>	<u>3,055</u>	<u>151</u>	<u>761</u>	<u>148</u>	<u>319</u>	<u>5</u>	<u>302</u>
Outside U.S.--total . . .	<u>18,121</u>	<u>12,191</u>	<u>146</u>	<u>1,327</u>	<u>1,715</u>	<u>165</u>	<u>111</u>	<u>2,466</u>
U.S. Territories--Total 2/	<u>1,509</u>	<u>1,112</u>	<u>38</u>	<u>178</u>	<u>52</u>	<u>51</u>	<u>1</u>	<u>77</u>
Puerto Rico	1,171	913	13	131	41	31	0	42
Virgin Island	141	88	3	25	3	15	0	7
American Samoa	7	3	0	1	0	2	0	1
Canal Zone	39	16	18	3	2	0	0	0
Guam	140	82	4	18	6	3	0	27
Wake Island	11	10	0	0	0	0	1	0

Estimated: Data is based on a 25-month criteria.

1/ Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

2/ Includes Outside U.S.

3/ U.S. territories are included in Outside U.S. total.

TABLE 15
ESTIMATED ACTIVE WOMEN NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE:
DECEMBER 31, 1984 1/

FAA Region and State	Total	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Engineer
Total 2/3/	<u>8,315</u>	<u>1,649</u>	<u>614</u>	<u>3,680</u>	<u>310</u>	<u>1,724</u>	<u>336</u>
United States—Total 3/	<u>8,235</u>	<u>1,639</u>	<u>609</u>	<u>3,639</u>	<u>294</u>	<u>1,718</u>	<u>335</u>
New England—Total	<u>381</u>	<u>70</u>	<u>27</u>	<u>180</u>	<u>5</u>	<u>81</u>	<u>18</u>
Maine	52	6	4	19	1	21	1
New Hampshire	50	10	1	20	1	12	6
Rhode Island	23	1	12	9	0	1	0
Massachusetts	145	26	6	76	0	34	3
Connecticut	98	26	3	47	3	11	8
Vermont	13	1	1	9	0	2	0
Eastern—Total	<u>1,155</u>	<u>153</u>	<u>82</u>	<u>507</u>	<u>73</u>	<u>305</u>	<u>35</u>
New York	469	67	16	179	49	148	10
Pennsylvania	234	31	18	120	11	45	9
Virginia	160	13	34	61	3	46	3
Maryland	96	9	4	50	1	28	4
West Virginia	22	8	0	8	1	5	0
Delaware	21	4	1	10	0	6	0
New Jersey	139	21	8	71	7	25	7
District of Columbia	14	0	1	8	1	2	2
Great Lakes—Total	<u>1,223</u>	<u>288</u>	<u>64</u>	<u>606</u>	<u>40</u>	<u>170</u>	<u>55</u>
Illinois	341	81	14	170	12	48	16
Indiana	118	12	20	52	4	22	8
Minnesota	127	36	7	50	13	10	11
Michigan	202	42	5	112	4	30	9
North Dakota	22	2	0	7	1	12	0
Ohio	289	100	13	135	4	29	8
South Dakota	30	2	0	23	0	5	0
Wisconsin	94	13	5	57	2	14	3
Central—Total	<u>368</u>	<u>103</u>	<u>26</u>	<u>185</u>	<u>2</u>	<u>51</u>	<u>3</u>
Kansas	114	34	7	56	0	16	1
Iowa	81	27	3	44	1	6	0
Missouri	138	37	11	65	1	22	2
Nebraska	35	5	3	20	0	7	0

TABLE 15 (Continued)
 ESTIMATED ACTIVE WOMEN NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE:
 DECEMBER 31, 1984 1/

FAA Region and State	Total	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Engineer
Southern--Total	<u>1,515</u>	<u>226</u>	<u>142</u>	<u>649</u>	<u>66</u>	<u>360</u>	<u>72</u>
North Carolina	175	18	41	67	1	43	5
South Carolina	58	4	5	28	2	16	3
Georgia	148	21	8	66	4	32	17
Florida	648	131	27	281	48	135	26
Mississippi	53	4	4	27	0	18	0
Alabama	196	16	7	97	1	73	2
Tennessee	158	15	36	55	7	30	15
Kentucky	79	17	14	28	3	13	4
Southwest--Total	<u>1,123</u>	<u>231</u>	<u>129</u>	<u>507</u>	<u>18</u>	<u>213</u>	<u>25</u>
Louisiana	104	30	3	46	2	22	1
Oklahoma	234	51	19	106	3	50	5
Texas	657	135	89	294	13	107	19
New Mexico	88	12	15	38	0	23	0
Arkansas	40	3	3	23	0	11	0
Western-Pacific--Total 3/	<u>1,595</u>	<u>380</u>	<u>84</u>	<u>639</u>	<u>57</u>	<u>361</u>	<u>73</u>
Hawaii	77	6	0	29	9	30	3
California 3/	<u>1,300</u>	<u>334</u>	<u>68</u>	<u>511</u>	<u>43</u>	<u>281</u>	<u>62</u>
Arizona	161	34	11	81	4	29	2
Nevada	57	6	5	18	1	21	6
Northwest-Mountain--Total	<u>731</u>	<u>169</u>	<u>45</u>	<u>319</u>	<u>12</u>	<u>142</u>	<u>44</u>
Washington	275	75	7	94	5	69	25
Oregon	94	14	14	47	0	19	0
Idaho	38	5	3	19	1	10	0
Colorado	218	55	7	107	5	28	16
Wyoming	20	4	2	10	1	3	0
Utah	47	12	6	17	0	10	2
Montana	38	4	6	25	0	3	1
Alaskan Region--Total .	<u>166</u>	<u>19</u>	<u>12</u>	<u>47</u>	<u>21</u>	<u>35</u>	<u>10</u>
Outside U.S.--Total 3/ .	<u>80</u>	<u>10</u>	<u>5</u>	<u>41</u>	<u>16</u>	<u>6</u>	<u>1</u>
U.S. Territories--Total 4/	<u>10</u>	<u>3</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>5</u>	<u>0</u>
Puerto Rico	6	3	0	1	0	2	0
Virgin Island	3	0	0	1	0	2	0
Guam	1	0	0	0	0	1	0

Estimated: Data is based on a 25-month criteria.

1/ Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

2/ Includes Outside U.S.

3/ Includes one woman from California and Outside U.S. with a current certificate for flight navigator.

4/ U.S. Territories are included in Outside of U.S. total.

III. PILOT CERTIFICATES ISSUED

TABLE 16
PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEARS 1980-1984

Category of Certificates	1980		1981		1982		1983		1984	
	Original	Additional								
Pilot—Total	180,742	38,791	177,861	33,532	163,733	36,699	150,419	30,898	141,763	30,469
Student	107,808	0	111,531	0	90,816	0	92,239	0	90,085	0
Private	50,558	16,035	45,713	14,897	52,144	16,276	41,210	12,721	36,545	11,784
Commercial	12,452	16,035	10,657	12,146	11,048	11,910	8,789	9,513	7,702	8,892
Airline transport	7,116	6,289	4,763	5,991	5,037	7,956	5,643	8,187	5,099	9,335
Helicopter (only)	1,721	272	1,985	302	2,256	330	1,932	315	1,808	319
Glider (only)	583	151	629	164	793	184	606	162	524	139
Lighter-than-air	604	29	2,583	32	1,639	3/	43	3/	—	—
Nonpilot—Total	17,280	7,275	18,498	7,263	21,016	8,655	17,932	7,378	17,285	6,645
Mechanic	11,640	4,254	13,673	4,790	15,622	5,636	11,676	4,670	10,719	4,042
Parachute rigger	185	50	232	17	215	31	214	13	149	12
Ground instructor	1,981	570	1,861	384	1,882	383	1,524	371	1,283	293
Dispatcher	351	0	302	1	499	1	632	1	755	3
Control tower operator	1,179	2,246	1,186	1,897	1,550	2,388	2,230	1,958	1,847	1,837
Flight navigator	9	0	8	0	3	0	15	2	14	0
Flight engineer	1,935	115	1,236	174	1,245	216	1,641	563	2,518	458
Flight instructor certificates 2/	7,188	6,953	6,461	8,767	6,228	10,397	4,614	7,698	—	4,075
Instrument ratings*	0	16,123	0	14,219	0	14,517	0	11,078	0	10,845

2/ Revised.

Note: Additional ratings are entered on current airman certificates as follows: Private, commercial, and airline transport pilot—aircraft category, class, and type ratings. Helicopter pilot—instrument and type ratings for each aircraft category in which the holder is qualified, and for instrument flying instruction. Mechanic—airframe and powerplant ratings. Parachute rigger—senior or master rigger ratings. Ground instructor—ratings for each subject in which the holder is qualified to give instruction. Air traffic control tower operator—junior/senior ratings for airport where holder may control air traffic.

* Special ratings shown on pilot certificates represented above; not to be added to total.

2/ Not included in total.

3/ Six month total.

TABLE 17
PILOT CERTIFICATES ISSUED, BY CATEGORY AND CONDUCTOR: December 31, 1964

Category of Certificates	Total Ratings Issued	Original Issuances			Additional Ratings			
		Total	Examiner	Inspector	No Test	Total	Examiner	Inspector
Total	196,163	159,049	54,909	93,255	10,885	37,114	28,765	5,676
Pilot—Total	172,233	141,764	42,136	92,531	7,097	30,469	22,770	5,635
Student	90,085	90,085	0	90,085	0	0	0	0
Private	48,330	36,546	33,227	198	3,121	11,784	11,157	99
Commercial	16,594	7,702	5,055	157	2,490	8,892	7,288	528
Airline transport	14,434	5,099	2,871	1,936	292	9,335	4,056	1,311
Helicopter (only)	2,127	1,808	497	150	1,161	319	139	152
Glider (only)	663	524	486	5	33	139	130	69
Nonpilot—Total	23,930	17,285	12,773	724	3,788	6,645	5,995	41
Mechanic	14,761	10,719	8,586	21	2,112	4,042	3,802	2
Parachute rigger	161	149	85	21	43	12	9	1
Ground instructor	1,576	1,283	101	2	1,180	293	33	0
Dispatcher	758	755	456	180	119	3	0	260
Control tower operator	3,684	1,847	1,829	2	16	1,837	1,832	4
Flight navigator	14	14	0	0	14	0	0	0
Flight engineer	2,976	2,518	1,716	498	304	458	316	106
Flight instructor ^a	10,903	4,075	3,883	120	72	6,828	6,396	415

Note: Excludes Renewals.

Additional ratings are entered on current airmen certificates as follows:

Private, Commercial, and Airline Transport Pilot—Aircraft Category, Class and Type Instrument Rating.

Helicopter Pilot—Instrument and Type Ratings.

Flight Instructor—Ratings for each aircraft category in which the holder is qualified to instruct, and ratings for instrument flying instruction.

Mechanic—Aircraft and Powerplant Ratings.

Parachute Rigger—Senior or Master Rigger Ratings.

Ground Instructor—Ratings for each subject in which the holder is qualified to give ground instruction.^b

Air Traffic Control Tower Operator—Junior/Senior Ratings for airports where holder may control air traffic.

^aSpecial ratings shown on pilot certificates represented above, not to be added to total.

TABLE 18
INSTRUMENT RATINGS ISSUED: 1984, 1983, 1980

Class of Certificates	1984	1983	1980	Percent Change 1984-1983
Total—All Groups	<u>10,845</u>	<u>11,078</u>	<u>16,123</u>	<u>-2</u>
Private Pilots—Total	<u>6,590</u>	<u>7,034</u>	<u>10,418</u>	<u>-6</u>
Private airplane (only)	6,140	6,549	9,714	-6
Private airplane, private glider	91	92	112	-1
Private airplane, commercial glider	3	5	6	-40
Private airplane, private helicopter	27	20	15	35
Private airplane, commercial helicopter	139	149	208	-7
Private airplane, private glider, private helicopter	0	1	1	—
Private airplane, other	190	218	362	-12
Commercial Pilots—Total	<u>3,275</u>	<u>2,956</u>	<u>4,753</u>	<u>-11</u>
Commercial airplane (only)	2,736	2,376	3,821	-7
Commercial airplane, private glider	28	23	45	-22
Commercial airplane, commercial glider	29	36	56	-19
Commercial airplane, private helicopter	3	5	2	-40
Commercial airplane, commercial helicopter	453	495	810	-8
Commercial airplane, private glider, commercial helicopter	1	4	8	-75
Commercial airplane, commercial glider, commercial helicopter	25	14	10	-79
Commercial airplane, other	0	3	1	—
Rotorcraft Pilots—Total	<u>980</u>	<u>1,088</u>	<u>952</u>	<u>-10</u>
Commercial helicopter	977	1,085	927	-10
Commercial helicopter, airline transport helicopter	1	0	22	—
Commercial helicopter, private glider	0	0	1	—
Commercial helicopter, commercial glider	1	1	2	0
Commercial helicopter, other	1	2	0	50

TABLE 19
STUDENT CERTIFICATES ISSUED, BY MONTH: 1980-1984

Month	1984	1983	1982	1981	1980
Total	90,085	92,239 <u>E</u>/	90,816	111,531	107,808
January	7,485	6,511	6,306	8,377	8,061
February	6,338	6,146	6,208	7,763	7,783
March	7,086	7,724	7,600	9,318	7,970
April	6,931	6,737	7,081	9,119	8,481
May	7,784	7,650	7,559	8,797	8,425
June	8,533	9,344	8,997	11,330	9,854
July	9,202	9,253	9,143	12,057	11,340
August	9,559	10,426	8,781	11,041	10,353
September	7,781	9,971	8,532	10,120	10,695
October	8,129	8,040	7,978	9,287	10,071
November	6,256 (P)	6,500	7,165	7,812	7,723
December	5,001 (P)	4,937	5,466	6,510	7,052

P/ Preliminary
r/ Revised

*U.G. GOVERNMENT PRINTING OFFICE : 1985 0-527-599/30512

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